CLAIMS

- A method of examining schizophrenia, which comprises measuring concentration(s) of (a) D-serine, (b) L serine or (c) D-serine and L-serine in a biological sample.
- The examination method of claim 1, wherein an index is that the D-serine concentration in a biological
 sample is lower than an average of said concentration in a healthy individual or a group of healthy individuals.
- 3. The examination method of claim 1, wherein an index is that the D-serine concentration in a biological sample is lower than an average-standard deviation of the concentration in a healthy individual or a group of healthy individuals.
- 20 4. The examination method of claim 1, wherein an index is that the D-serine concentration in a biological sample is lower than the average + standard deviation of said concentration in an individual with schizophrenia or a group of individuals with schizophrenia.
- 5. The examination method of claim 1, wherein an index is that the L-serine concentration in a biological sample is higher than an average of said concentration in a healthy individual or a group of healthy individuals.
- 6. The examination method of claim 1, wherein an index is a ratio of the D-serine concentration to the total serine concentration in a biological sample.

- 7. The examination method of claim 6, wherein an index is that the ratio of the D-serine concentration to the total serine concentration in a biological sample is lower than an average of said ratio in a healthy individual or a group of healthy individuals.
- 8. The examination method of claim 6, wherein an index is that the ratio of the D-serine concentration to the total serine concentration in a biological sample is lower than an average-standard deviation of said ratio in a healthy individual or a group of healthy individuals.
- 15 9. The examination method of claim 6, wherein an index is that the ratio of the D-serine concentration to the total serine concentration in a biological sample is lower than an anaverage+standard deviation of said ratio in an individual with schizophrenia or a group of individuals with schizophrenia.
- 10. The examination method of any of claims 1 to 9, further comprising selecting patients with schizophrenia for whom the D-serine therapy is effective.
 - 11. The examination method of any of claims 1 to 10, which uses an amino acid labeling reagent.
- 12. The examination method of claim 11, further comprising steps of contacting an amino acid labeling reagent with a biological sample to label serine and separating or quantifying the labeled D-serine and the labeled L-serine.

- 13. The examination method of claim 12, further comprising a step of separating and quantifying the labeled serine before the step of separating or quantifying the labeled D-serine and the labeled L-serine.
 - 14. The examination method of claim 12, wherein the labeled D-serine and the labeled L-serine are separated or quantified using a column or capillary.
- 15. The examination method of claim 13, wherein the labeled D-serine and the labeled L-serine are separated or quantified using a column or capillary.
- 15 16. The examination method of claim 13, wherein the labeled serine is separated or quantified using chromatography.
- 17. The examination method of claim 15, wherein the 20 labeled serine is separated or quantified using chromatography.
- 18. The examination method of claim 14, 15 or 17, wherein the column or capillary is a column or 25 capillary for optical resolution.
 - 19. The examination method of claim 16 or 17, wherein the chromatography is high performance liquid chromatography.
 - 20. The examination method of claim 17, wherein the chromatography is high performance liquid chromatography and the column or capillary is a column or capillary for optical resolution.

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- 21. The examination method of any of claims 11 to 20, wherein the amino acid labeling reagent is an amino acid fluorescence-labeling reagent.
- 5 22. The examination method of claim 21, wherein the amino acid fluorescence-labeling reagent is 4-fluoro-7-nitro-2,1,3-benzoxadiazole.
- 23. A reagent for examining schizophrenia, which 10 comprises an amino acid labeling reagent.
 - 24. The reagent of claim 23, wherein the amino acid labeling reagent is an amino acid fluorescence-labeling reagent.
- 25. The reagent of claim 24, wherein the amino acid fluorescence-labeling reagent is 4-fluoro-7-nitro-2,1,3-benzoxadiazole.

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- 20 26. A method of examining or diagnosing schizophrenia, which comprises measuring concentrations of D-serine and L-serine in serum and using an increase or decrease in the concentration as an index.
- 25 27. A method of examining or diagnosing schizophrenia, which comprises measuring a D-serine concentration in serum and using a decrease in the concentration as an index.
- 28. A method of examining or diagnosing schizophrenia, which comprises measuring an L-serine concentration in serum and using an increase in the concentration as an index.